

## ABSTRACT

The present invention is directed to a method of forming an immobilized chemical moiety, such as a trifunctional chemical moiety that includes membrane-anchoring  
5 functionalities, on a solid support for use in automated chemical synthesis of a recognition molecule. The invention is further directed to a method of easily and efficiently synthesizing chemical moieties such as those used for biosensor applications. The invention is further directed to a composition, i.e., a solid support having a trifunctional chemical moiety linked thereto, that can be readily and easily used to generate biological  
10 molecules for applications, such as biosensor applications.